

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,711	09/11/2003	Carl R. Merril	NIH298.1DC1CC1	4758
20995 KNOBBE MA	7590 01/07/200 RTENS OLSON & BE	EXAM	EXAMINER	
2040 MAIN STREET			SNYDER, STUART	
FOURTEENTH FLOOR IRVINE, CA 92614		·	ART UNIT	PAPER NUMBER
•			1648	•
				·
			NOTIFICATION DATE	DELIVERY MODE
			01/07/2008	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

<del></del> -:		Application No.	Applicant(s)			
Office Action Summary		10/659,711	MERRIL ET AL.			
		Examiner	Art Unit			
		Stuart W. Snyder	1648			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 No	ovember 2007.				
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 20,22 and 23 is/are pending in the apple 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 20,22 and 23 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accent applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notic 3) Infor	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

Application/Control Number:

10/659,711 Art Unit: 1648

#### **DETAILED ACTION**

#### Status of the Claims

1. Claims 20, 22 and 23, as amended in the filing of 6/21/2007, are pending and examined herein.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 20, 22 and 23 stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The record is clear as to the basis of the Examiner's reasoning concerning enablement of the claims: 1) The genetic engineering technique described in the Specification of Applicants' original filing is not sufficient to arrive at the presently claimed invention and 2) there is no convincing evidence that the Specification of Applicants' original filing allows an skilled artisan to produce, by the genetic engineering techniques, a phage "able to delay inactivation by an animal's host defense system".

Careful reading of Applicants' original Specification reveals many genetic engineering techniques. There is no description or suggestion that **the** genetic engineering technique would involve the non-inventive reconstruction of a

10/659,711 Art Unit: 1648

naturally arising mutation in a phage coat protein, the technique requiring prior knowledge of the nature and location of the mutation. Applicants' arguments in the filing of 11/14/2007 are silent regarding where in the specification such teaching or suggestion is found.

Secondly, claim 22 requires that the phage delay inactivation by the host defense system. Vitiello, et al. provides no such demonstration. Rather that present evidence as to the required mechanism of increased circulation time of viable phage, the authors merely **declare** that they have demonstrated escape from the "innate immune system". An alternate explanation for the observed phenomenon is not ruled out by the data presented: The point mutation may simply provide increased mechanical stability to the phage. In fact, there is no experimental evidence presented regarding the nature of the mechanism of conferring to the phage an increased circulation time and, in fact, no evidence of such experimentation has ever been presented. Declaration is not evidence. Applicant's arguments filed 11/14/2007 have been fully considered but they are not persuasive. Applicants' arguments regarding enablement are threefold: 1) There is considerable guidance in the specification regarding how to make and how to use the phage. 2) there was high skill in the art, and 3) all of the methods needed to practice the invention were well know. With regard to item number two there is no dispute. With regard to arguments 1) and 3), the Examiner continues to maintain that only prior knowledge of specific point mutations to phage coat proteins that confers the increased circulation phenotype has been shown to

Application/Control Number:

10/659,711 Art Unit: 1648

result in the such a phage and that key element is missing from the specification and any art known at the time of filing presented by Applicants for the record.

Rejection of claims 20, 22 and 23 under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement is **maintained**.

3. Claims 20, 22 and 23 stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The basis of the rejection is a matter of record. Applicants' arguments in the filing of 11/14/2007 do not address the Examiner's reasoning in the mailing of 8/14/2007. Therefore, rejection of claims 20, 22 and 23 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is **maintained**.

### **Conclusion**

- 4. No claims are allowed.
- 5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory

10/659,711 Art Unit: 1648

action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart W. Snyder whose telephone number is (571) 272-9945. The examiner can normally be reached on 9:00 AM-5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce R. Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Stuart W Snyder Examiner Art Unit 1648

**SWS** 

MARY E. MOSHER, PH.D.
PRIMARY EXAMINER